

HAHN AND ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

April 17, 2017

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Northwest Region, Portland Office
Portland Harbor Section
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HAI Project No. 2708
DEQ ECSI File No. 84

**SUBJECT: Progress Report, NW Natural Site, 7900 NW St. Helens Avenue and
7200 NW Front Avenue, Portland, Oregon**

Mr. Bayuk:

Hahn and Associates, Inc. (HAI) has prepared this monthly Progress Report to summarize Remedial Investigation/Feasibility Study (RI/FS) and source control-related work activities conducted by NW Natural relating to historic manufactured gas plant (MGP) activities at the NW Natural Site during the month of March 2017. NW Natural is completing upland investigation and cleanup activities at the NW Natural Site under the Voluntary Agreement No. ECVC-WMCVC-NWR-94-13 (Voluntary Agreement) between NW Natural and the Oregon Department of Environmental Quality (DEQ).

**1. ACTIONS TAKEN UNDER THE VOLUNTARY AGREEMENT DURING
THE PREVIOUS MONTH**

HAI field activities related to monitoring and maintenance of the dense non-aqueous phase liquid (DNAPL) extraction system at surficial fill well locations MW-6-32 and MW-13-30 occurred during March 2017. The DNAPL storage tank previously reached capacity with 492 gallons measured in the tank and therefore the system automatically shut-off. Scheduling of the product removal from this tank for re-refining will occur after profile renewal at the receiving facility, which is still pending as of March.

Tasks related to maintenance of the HC&C system and the groundwater treatment system were conducted in March 2017, with the system operating in full long-term operational mode.

Observations of surface water overland flow were conducted during March in accordance with the *Stormwater Source Control Work Plan*.

A total of 10,383,755 gallons of water were treated in the on-site groundwater treatment plant and discharged during March 2017. Discharged water met all effluent criteria set by the facility's NPDES permit.

Baseline DNAPL removal as needed to maintain levels below the top of the well sumps was conducted by Anchor QEA during March 2017 in the following wells near the river shoreline.

- MW-18U
- MW-26U
- MW-38U

- MW-PW2L
- PW-13U

Installation of new HC&C system pumping well PW-10U was initiated during March.

Quarterly site-wide groundwater elevation measurements were collected by NW Natural at the NW Natural and Siltronic properties on March 9, 2017. Routine groundwater sampling activities as part of the recently updated Integrated Groundwater Monitoring Program were initiated the week of March 20, 2017.

Undisturbed core collection activities as described in the May 2016 *Gasco Uplands Data Gaps Investigation Work Plan*, revised based on DEQ's February 14, 2017 comment letter and follow-up communications, were completed between March 27, 2017 and March 29, 2017.

2. ACTIONS SCHEDULED TO BE TAKEN IN THE NEXT MONTH

NW Natural and DEQ technical working group communications and meetings will occur as needed within the next month to discuss ongoing project tasks.

Preparation of the RI/RA Addendum for the northern portion of the Siltronic property will continue during the indicated timeframe.

Observations of surface water overland flow will continue to be made in accordance with the *Stormwater Source Control Work Plan*.

Routine Baseline DNAPL measurements and removal will continue as needed to maintain levels below the top of the well sumps in nearshore HC&C-related wells.

Routine groundwater monitoring activities as part of the recently updated Integrated Groundwater Monitoring Program, initiated in March 2017, will continue during April 2017.

Soil and temporary well point groundwater sampling activities as per the May 2016 *Gasco Uplands Data Gaps Investigation Work Plan*, revised based on DEQ's February 14, 2017 comment letter and follow-up communications, are anticipated to begin during April 2017, and will continue into May 2017.

Soil gas and outdoor air sampling activities as per the May 2016 *Gasco Uplands Data Gaps Investigation Work Plan*, revised based on DEQ's February 14, 2017 comment letter and follow-up communications, are anticipated to begin in April and will continue during May 2017. Several items related to the scope of this work require resolution with DEQ prior to initiating these activities.

3. LABORATORY TEST RESULTS RECEIVED DURING THE PREVIOUS MONTH

NW Natural receives test results on a regular basis as a result of routine monitoring related to groundwater quality or as specified by various permit requirements. Additionally, test results are periodically received through implementation of task-specific investigation activities resulting from agency-approved work plans. These data are provided to DEQ or the permitting authority (if different than DEQ) in accordance with previously-approved formats and schedules.

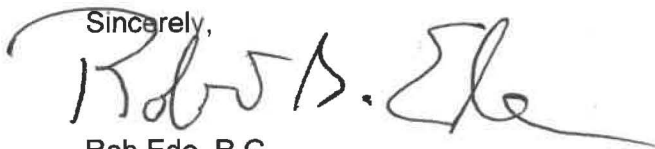
There were no test results received within the previous month that will not be reported in accordance with previously-approved formats and schedules.

4. PROBLEMS EXPERIENCED DURING THE PREVIOUS MONTH

There were no problems of significance experienced during the previous month.

Should you have any questions, please contact the undersigned.

Sincerely,



Rob Ede, R.G.
Principal

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